

WHAT IS CLAIMED IS:

1. A composite component comprising:
a capacitor comprising at least one insulation layer and at least two electrode layers; and
a spiral strip of conductor and a plurality of terminals formed in close contact with an external peripheral surface of said capacitor or an external peripheral surface of said insulation layer not comprising said capacitor and having no electrodes disposed thereon,
wherein said electrode layers and said spiral strip of conductor are electrically connected to said plurality of terminals.
2. The composite component according to claim 1, wherein said spiral strip of conductor is constructed of the same material as terminals provided on said composite component.
3. The composite component according to claim 1, wherein a spiral axis of said spiral strip of conductor is parallel with said electrode layers comprising said capacitor.
4. The composite component according to claim 1, containing therein a plurality of capacitors.
5. The composite component according to claim 1, wherein said spiral strip of conductor is electrically connected at two ends and at other portions thereof with said plurality of terminals.

6. The composite component according to claim 1, wherein said spiral strip of conductor and at least one of said electrode layers comprising said capacitor are electrically connected to one of said terminals.

7. The composite component according to claim 1, wherein an entire surface thereof other than portions occupied by said terminals is covered by an external insulation layer.

8. The composite component according to claim 7, wherein said external insulation layer contains magnetic material powder and/or ceramic powder.

9. The composite component according to claim 7, wherein said external insulation layer is covered with conductive material.

10. A composite component comprising:
a spiral strip of conductor formed in close contact with an insulating body or a magnetic body; and
a capacitor comprised of at least one insulation layer and at least two electrode layers,
wherein said spiral strip of conductor and said capacitor are laminated one after another with an insulation layer placed therebetween, a spiral axis of said spiral strip of conductor is parallel with said electrode layers comprising said capacitor, and said electrode layers and said spiral strip of conductor are electrically connected.

11. A method of manufacturing a composite component comprising:

forming a capacitor comprising at least one insulation layer and at least two electrode layers;

forming an additional insulation layer on an external peripheral surface of said insulation layer and said capacitor; and

forming a spiral strip of conductor and a terminal on an external periphery of said capacitor covered with said additional insulation layer.

12. The method of manufacturing a composite component according to claim 11, wherein forming said conductor and said terminal comprises:

forming a conductive layer on the external periphery of said capacitor covered with said additional insulation layer, and

laser machining said conductive layer.

13. The method of manufacturing a composite component according to claim 11, wherein forming said conductor and said terminal comprises:

forming a conductive layer on the external periphery of said capacitor covered with said additional insulation layer, and

machine-cutting said conductive layer.

14. The method of manufacturing a composite component according to claim 11, wherein forming said conductor and said terminal comprises:

forming a conductive layer on the external periphery of said capacitor covered with said additional insulation layer, and

wet-etching said conductive layer.

15. The method of manufacturing a composite component according to claim 11, wherein forming said conductor and said terminal comprises:

covering with a mask a surface portion other than surface areas where said terminals and said spiral strip of conductor are formed on the peripheral surface of said capacitor covered with said additional insulation layer, and

forming a conductor on said surface areas not covered by said mask.

16. The method of manufacturing a composite component according to claim 15, wherein forming a conductor is carried out by vacuum-plating or wet-plating.

17. The method of manufacturing a composite component according to claim 11, wherein forming said conductor and said terminal comprises:

forming a conductor with conductive paste on surface areas where said terminals and said spiral strip of conductor are formed on the external periphery of said capacitor covered with said additional insulation layer, and

forming a plated layer on the conductor formed by said conductive paste.

18. A method of manufacturing a composite component comprising:

forming a capacitor comprising at least one insulation layer and at least two electrode layers provided on a portion of said insulation layer;

forming an additional insulation layer on an external peripheral surface of said insulation layer and said capacitor; and

forming a spiral strip of conductor and a terminal on an external periphery of said additional insulation layer.

19. A method of manufacturing a composite component comprising:

forming a capacitor comprising at least one insulation layer and at least two electrode layers;

forming a spiral strip of conductor in close contact with an external periphery of an insulation body or a magnetic body; and

laminating said capacitor and said insulation body or said magnetic body, on which said spiral strip of conductor is closely formed, via another insulation layer placed therebetween.

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